

WEST Search History for Application 10520221

Creation Date: 2010020721:55

sensor same biologicalUSPT ADJ 03-14-2009
sensor same holographicUSPT ADJ 03-14-2009
agar or agarose or Agar\$8USPT ADJ 03-14-2009
(sensor same biological) same (agar or agarose or Agar\$8)USPT ADJ 03-14-2009
agar or Agar\$8USPT ADJ 03-14-2009
agarUSPT ADJ 03-14-2009
5989923.pn.USPT ADJ 03-14-2009
(5989923.pn.) and (agar or Agar\$8)USPT ADJ 03-14-2009
(agar) and (5989923.pn. and agar or Agar\$8)USPT ADJ 03-14-2009
(agar or agarose or Agar\$8) and (agar and 5989923.pn. and agar or Agar\$8
)USPT ADJ 03-14-2009
(agar or agarose or Agar\$8 and agar and 5989923.pn. and agar or Agar\$8) and (sensor same
 biological)USPT ADJ 03-14-2009
(sensor same holographic) and (agar or agarose or Agar\$8 and agar and 5989923.pn. and
 agar or Agar\$8 and sensor same biological)USPT ADJ 03-14-2009
sensor same biologicalUSOC, EPAB, JPAB, DWPI ADJ 03-14-2009
sensor and holographicUSOC, EPAB, JPAB, DWPI ADJ 03-14-2009
sensor and biologicalUSOC, EPAB, JPAB, DWPI ADJ 03-14-2009
agar or agarose or Agar\$8USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
agarUSOC, EPAB, JPAB, DWPI ADJ 03-14-2009
detect\$9 and (cell or spore)USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
(quanti\$9 or detect\$9 or assay or measure) and (cell or spore)USOC, EPAB, JPAB,
 DWPI ADJ 03-14-2009
(sensor same biological) and (sensor and holographic)USOC, EPAB, JPAB,
 DWPI ADJ YES 03-14-2009
(sensor and biological) and (sensor and holographic)USOC, EPAB, JPAB,
 DWPI ADJ YES 03-14-2009
(agar or agarose or Agar\$8) and (sensor and biological and sensor and holographic)USOC,
 EPAB, JPAB, DWPI ADJ YES 03-14-2009
(agar or agarose or Agar\$8) and (sensor and biological)USOC, EPAB, JPAB,
 DWPI ADJ YES 03-14-2009
(detect\$9 and (cell or spore)) and ((quanti\$9 or detect\$9 or assay or measure) and (cell or
 spore))USOC, EPAB, JPAB, DWPI ADJ YES 03-14-2009
(agar or agarose or Agar\$8 and sensor and biological) and (detect\$9 and (cell or spore) and
 (quanti\$9 or detect\$9 or assay or measure) and (cell or spore))USOC, EPAB, JPAB,
 DWPI ADJ YES 03-14-2009
(sensor and holographic) and (agar or agarose or Agar\$8 and sensor and biological and
 detect\$9 and (cell or spore) and (quanti\$9 or detect\$9 or assay or measure) and (cell or
 spore))USOC, EPAB, JPAB, DWPI ADJ YES 03-14-2009
(sensor and holographic) and (detect\$9 and (cell or spore) and (quanti\$9 or detect\$9 or
 assay or measure) and (cell or spore))USOC, EPAB, JPAB, DWPI ADJ YES 03-14-2009
(agar or agarose or Agar\$8) and (sensor and holographic and detect\$9 and (cell or spore)
 and (quanti\$9 or detect\$9 or assay or measure) and (cell or spore))USOC, EPAB, JPAB,
 DWPI ADJ YES 03-14-2009
(agar) and (sensor and holographic and detect\$9 and (cell or spore) and (quanti\$9 or
 detect\$9 or assay or measure) and (cell or spore))USOC, EPAB, JPAB,

DWPI ADJ YES 03-14-2009

((detect\$5 or find\$5) same microb\$5) same hologr\$6 PGPB, USPT ADJ 03-14-2009
cell with hologr\$6 PGPB, USPT ADJ 03-14-2009
((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5 PGPB, USPT ADJ 03-14-2009
((holograph\$ or Hologram) same sens\$7) PGPB, USPT ADJ 03-14-2009
(detect\$5 near5 (\$7cell\$5 near5 (growth med\$3))) PGPB, USPT ADJ 03-14-2009
(Agar or Agarose) near5 (\$7cell\$5 near5 (growth med\$3)) PGPB, USPT ADJ 03-14-2009
(cell with hologr\$6) and (((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5) PGPB,
USPT ADJ 03-14-2009
(((holograph\$ or Hologram) same sens\$7)) and (cell with hologr\$6 and ((holograph\$ or
Hologram) near5 sens\$7) with \$7cell\$5) PGPB, USPT ADJ 03-14-2009
((detect\$5 near5 (\$7cell\$5 near5 (growth med\$3)))) and (((holograph\$ or Hologram) same
sens\$7) and cell with hologr\$6 and ((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5
) PGPB, USPT ADJ 03-14-2009
((detect\$5 near5 (\$7cell\$5 near5 (growth med\$3)))) and (((holograph\$ or Hologram) same
sens\$7)) PGPB, USPT ADJ 03-14-2009
(((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5) and ((detect\$5 near5 (\$7cell\$5
near5 (growth med\$3))) and ((holograph\$ or Hologram) same sens\$7)) PGPB,
USPT ADJ 03-14-2009
(cell with hologr\$6) and (((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5 and
(detect\$5 near5 (\$7cell\$5 near5 (growth med\$3))) and ((holograph\$ or Hologram) same
sens\$7)) PGPB, USPT ADJ 03-14-2009
(((detect\$5 or find\$5) same microb\$5) same hologr\$6) and (cell with hologr\$6 and
((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5 and (detect\$5 near5 (\$7cell\$5 near5
(growth med\$3))) and ((holograph\$ or Hologram) same sens\$7)) PGPB,
USPT ADJ 03-14-2009
((detect\$5 or find\$5) and microb\$5) and hologr\$6 USOC, EPAB, JPAB,
DWPI ADJ 03-14-2009
(gelling agent or gel or agar or agarose) and (\$7cell\$5 and (growth med\$3)) USOC, EPAB,
JPAB, DWPI ADJ 03-14-2009
(detect\$5 and (\$7cell\$5 and (growth med\$3))) USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
((holograph\$ or Hologram) and sens\$7) USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 USOC, EPAB, JPAB,
DWPI ADJ 03-14-2009
cell and hologr\$6 USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
cell and ((product or metabolite) or (metaboli\$6 product)) USOC, EPAB, JPAB,
DWPI ADJ 03-14-2009
((gelling agent or gel or agar or agarose) and (\$7cell\$5 and (growth med\$3))) and ((detect\$5
and (\$7cell\$5 and (growth med\$3)))) USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
((detect\$5 and (\$7cell\$5 and (growth med\$3)))) and 22 USOC, EPAB, JPAB,
DWPI ADJ 03-14-2009
(((holograph\$ or Hologram) and sens\$7)) and ((detect\$5 and (\$7cell\$5 and (growth med\$3)))
and 22) USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
(((holograph\$ or Hologram) and sens\$7) and \$7cell\$5) and (cell and hologr\$6) USOC, EPAB,
JPAB, DWPI ADJ 03-14-2009
(((holograph\$ or Hologram) and sens\$7)) and (cell and hologr\$6) USOC, EPAB, JPAB,
DWPI ADJ 03-14-2009
(((holograph\$ or Hologram) and sens\$7) and \$7cell\$5) and (((holograph\$ or Hologram) and
sens\$7) and cell and hologr\$6) USOC, EPAB, JPAB, DWPI ADJ 03-14-2009
(((holograph\$ or Hologram) and sens\$7)) and (((holograph\$ or Hologram) and sens\$7) and
\$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) USOC, EPAB,

JPAB, DWPI ADJ 03-14-2009

((detect\$5 and (\$7cell\$5 and (growth med\$3)))) and (((holograph\$ or Hologram) and sens\$7) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6)USOC, EPAB, JPAB, DWPI ADJ 03-14-2009

(((holograph\$ or Hologram) and sens\$7) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) and (((detect\$5 or find\$5) and microb\$5) and hologr\$6)USOC, EPAB, JPAB, DWPI ADJ 03-14-2009

((detect\$5 and (\$7cell\$5 and (growth med\$3))) and ((holograph\$ or Hologram) and sens\$7) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) and (((holograph\$ or Hologram) and sens\$7) and

((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6 and ((detect\$5 or find\$5) and microb\$5) and hologr\$6)USOC, EPAB, JPAB, DWPI ADJ 03-14-2009

Prior Art Searches

| Query | DB | Op. | Plur. | Thes. | Date |
|--|---------------------------------|-----|-------|-------|------------|
| sensor same biological | USPT | ADJ | YES | | 02-07-2010 |
| sensor same holographic | USPT | ADJ | YES | | 02-07-2010 |
| agar or agarose or Agar\$8 | USPT | ADJ | YES | | 02-07-2010 |
| (sensor same biological) same (agar or agarose or Agar\$8) | USPT | ADJ | YES | | 02-07-2010 |
| agar or Agar\$8 | USPT | ADJ | YES | | 02-07-2010 |
| agar | USPT | ADJ | YES | | 02-07-2010 |
| 5989923.pn. | USPT | ADJ | YES | | 02-07-2010 |
| (5989923.pn.) and (agar or Agar\$8) | USPT | ADJ | YES | | 02-07-2010 |
| (agar) and (5989923.pn. and agar or Agar\$8) | USPT | ADJ | YES | | 02-07-2010 |
| (agar or agarose or Agar\$8) and (agar and 5989923.pn. and agar or Agar\$8) | USPT | ADJ | YES | | 02-07-2010 |
| (agar or agarose or Agar\$8 and agar and 5989923.pn. and agar or Agar\$8) and (sensor same biological) | USPT | ADJ | YES | | 02-07-2010 |
| (sensor same holographic) and (agar or agarose or Agar\$8 and agar and 5989923.pn. and agar or Agar\$8 and sensor same biological) | USPT | ADJ | YES | | 02-07-2010 |
| sensor same biological | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| sensor and holographic | USOC, EPAB, | ADJ | YES | | 02-07-2010 |

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|--|---------------------------------|-----|-----|--|------------|
| | JPAB, DWPI | | | | |
| sensor and biological | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| agar or agarose or Agar\$8 | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| agar | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| detect\$9 and (cell or spore) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (quanti\$9 or detect\$9 or assay or measure) and (cell or spore) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (sensor same biological) and (sensor and holographic) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (sensor and biological) and (sensor and holographic) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (agar or agarose or Agar\$8) and (sensor and biological) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (detect\$9 and (cell or spore)) and ((quanti\$9 or detect\$9 or assay or measure) and (cell or spore)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (agar or agarose or Agar\$8 and sensor and biological) and (detect\$9 and (cell or spore) and (quanti\$9 or detect\$9 or assay or measure) and (cell or spore)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| | | ADJ | YES | | 02-07-2010 |

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|--|------------------------|-----|-----|--|------------|
| (sensor and holographic) and (detect\$9 and (cell or spore) and (quanti\$9 or detect\$9 or assay or measure) and (cell or spore)) | USOC, EPAB, JPAB, DWPI | | | | |
| ((detect\$5 or find\$5)same microb\$5) same hologr\$6 | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| cell with hologr\$6 | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5 | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) same sens\$7) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (detect\$5 near5 (\$7cell\$5 near5 (growth med\$3))) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (Agar or Agarose) near5 (\$7cell\$5 near5 (growth med\$3)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (cell with hologr\$6) and (((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) same sens\$7)) and (cell with hologr\$6 and ((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((detect\$5 near5 (\$7cell\$5 near5 (growth med\$3)))) and (((holograph\$ or Hologram) same sens\$7) and cell with hologr\$6 and ((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((detect\$5 near5 (\$7cell\$5 near5 (growth med\$3)))) and (((holograph\$ or Hologram) same sens\$7)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5) and ((detect\$5 near5 (\$7cell\$5 near5 (growth med\$3))) and ((holograph\$ or Hologram) same sens\$7)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (cell with hologr\$6) and (((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5 and (detect\$5 near5 (\$7cell\$5 near5 (growth med\$3))) and ((holograph\$ or Hologram) same sens\$7)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((detect\$5 or find\$5)same microb\$5) same hologr\$6) and (cell with hologr\$6 and ((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5 and (detect\$5 near5 (\$7cell\$5 near5 (growth med\$3))) and ((holograph\$ or Hologram) same sens\$7)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((detect\$5 or find\$5) and microb\$5) and hologr\$6 | USOC, EPAB, | ADJ | YES | | 02-07-2010 |

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|--|---------------------------------|-----|-----|--|------------|
| | JPAB, DWPI | | | | |
| (gelling agent or gel or agar or agarose) and (\$7cell\$5 and (growth med\$3)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (detect\$5 and (\$7cell\$5 and (growth med\$3))) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) and sens\$7) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| cell and hologr\$6 | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| cell and ((product or metabolite) or (metaboli\$6 product)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((gelling agent or gel or agar or agarose) and (\$7cell\$5 and (growth med\$3))) and ((detect\$5 and (\$7cell\$5 and (growth med\$3)))) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((detect\$5 and (\$7cell\$5 and (growth med\$3)))) and 22 | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (((holograph\$ or Hologram) and sens\$7)) and ((detect\$5 and (\$7cell\$5 and (growth med\$3))) and 22) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (((holograph\$ or Hologram) and sens\$7) and \$7cell\$5) and (cell and hologr\$6) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| | | ADJ | YES | | 02-07-2010 |

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|--|---------------------------------|-----|-----|--|------------|
| ((holograph\$ or Hologram) and sens\$7)) and (cell and hologr\$6) | USOC, EPAB, JPAB, DWPI | | | | |
| ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5) and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) and sens\$7)) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((detect\$5 and (\$7cell\$5 and (growth med\$3)))) and ((holograph\$ or Hologram) and sens\$7) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) and sens\$7) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) and (((detect\$5 or find\$5) and microb\$5) and hologr\$6) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((detect\$5 and (\$7cell\$5 and (growth med\$3))) and ((holograph\$ or Hologram) and sens\$7) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6) and (((holograph\$ or Hologram) and sens\$7) and ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 and ((holograph\$ or Hologram) and sens\$7) and cell and hologr\$6 and ((detect\$5 or find\$5) and microb\$5) and hologr\$6) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((detect\$5 and (\$7cell\$5 and (growth med\$3)))) AND (cell and ((product or metabolite) or (metaboli\$6 product))) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((BIOLOGICAL CELL) OR cELL) SAME | PGPB, | ADJ | YES | | 02-07-2010 |

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|--|---------------------------------|-----|-----|--|------------|
| (IMMOBILIZE OR FIX OR ADHERE OR ATTACH) | USPT | | | | |
| ANTIBODY OR PROTEIN | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((BIOLOGICAL CELL) OR cELL) SAME (IMMOBILI\$8) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((((BIOLOGICAL CELL) OR cELL) SAME (IMMOBILI\$8)) SAME (ANTIBODY OR PROTEIN) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((((BIOLOGICAL CELL) OR cELL) SAME (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) SAME (ANTIBODY OR PROTEIN) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((((BIOLOGICAL CELL) OR cELL) SAME (IMMOBILIZE OR FIX OR ADHERE OR ATTACH) SAME ANTIBODY OR PROTEIN) AND (((BIOLOGICAL CELL) OR cELL) SAME (IMMOBILI\$8) SAME ANTIBODY OR PROTEIN) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (quanti\$9 or detect\$9 or assay or measure) SAME (cell or spore) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5 | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((((holograph\$ or Hologram) near5 sens\$7) with \$7cell\$5) SAME ((quanti\$9 or detect\$9 or assay or measure) SAME (cell or spore)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ANTIBODY OR PROTEIN | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (ANTIBODY OR PROTEIN) AND (((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8)) AND (((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((detect\$5 and (\$7cell\$5 and (growth med\$3)))) AND (ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND | USOC, EPAB, JPAB, | ADJ | YES | | 02-07-2010 |

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| ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | DWPI | | | | |
| ((holograph\$ or Hologram) and sens\$7)) AND (ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((holograph\$ or Hologram) and sens\$7) and \$7cell\$5) AND (ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (cell and hologr\$6) AND (ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (cell and ((product or metabolite) or (metaboli\$6 product))) AND (ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (cell and ((product or metabolite) or (metaboli\$6 product)) AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) AND ((detect\$5 and (\$7cell\$5 and (growth med\$3))) AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (cell and ((product or metabolite) or (metaboli\$6 product)) AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) AND (((holograph\$ or Hologram) and sens\$7) AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |

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|---|------------------------|-----|-----|--|------------|
| cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | | | | | |
| (cell and ((product or metabolite) or (metaboli\$6 product)) AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) AND (((holograph\$ or Hologram) and sens\$7) and \$7cell\$5 AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (cell and ((product or metabolite) or (metaboli\$6 product)) AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) AND (cell and hologr\$6 AND ANTIBODY OR PROTEIN AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILI\$8) AND ((BIOLOGICAL CELL) OR cELL) AND (IMMOBILIZE OR FIX OR ADHERE OR ATTACH)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (Cell or spore) same (growth or metabolism or metabolite or germinat\$5) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (hologram or holograph) same (sensor or detect\$5) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (antibody same immobiliz\$5) same (magnetic bead) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (antibody same attach\$8) same (magnetic bead) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody same attach\$8) same (magnetic bead)) same ((antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody same attach\$8) same (magnetic bead) same (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) same ((antibody same immobiliz\$5) same (magnetic bead)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody same attach\$8) same (magnetic bead) same (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite) same (antibody same | PGPB, USPT | ADJ | YES | | 02-07-2010 |

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|--|------------|-----|-----|--|------------|
| immobiliz\$5) same (magnetic bead)) same ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) | | | | | |
| ((antibody same attach\$8) same (magnetic bead) same (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite) same (antibody same immobiliz\$5) same (magnetic bead)) same ((hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody same attach\$8) same (magnetic bead)) same ((hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) same ((hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) same (hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) same (hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) same (hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) same (hologram or holograph) same (sensor or detect\$5)) same ((antibody same attach\$8) same (magnetic bead)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) same (hologram or holograph) same (sensor or detect\$5)) and ((antibody same attach\$8) same (magnetic bead)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) and ((hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) and (hologram or holograph) same (sensor or detect\$5)) and ((antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) and (hologram or holograph) same (sensor or detect\$5) and (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) and (((antibody same immobiliz\$5) same | PGPB, USPT | ADJ | YES | | 02-07-2010 |

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|--|------------|-----|-----|--|------------|
| (magnetic bead)) or ((antibody same attach\$8) same (magnetic bead))) | | | | | |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) and (hologram or holograph) same (sensor or detect\$5) and (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) and (((antibody same attach\$8) same (magnetic bead))) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) and (hologram or holograph) same (sensor or detect\$5) and (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) and (((antibody same immobiliz\$5) same (magnetic bead))) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| magnetic bead | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (magnetic bead) and ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) and (hologram or holograph) same (sensor or detect\$5) and (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (antibody) same (magnetic bead) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody) same (magnetic bead)) same ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody) same (magnetic bead) same (Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) same ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) and (hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody) same (magnetic bead) same (Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) and ((Cell or spore) same (growth or metabolism or metabolite or germinat\$5) and (hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody) same (magnetic bead) same (Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) Same ((hologram or holograph) same (sensor or detect\$5)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody) same (magnetic bead) same (Cell or spore) same (growth or metabolism or metabolite or germinat\$5)) Same ((antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |

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|---|------------------------|-----|-----|--|------------|
| ((antibody) same (magnetic bead) same (Cell or spore) same (growth or metabolism or metabolite or germinat\$5) Same (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite)) and ((antibody same immobiliz\$5) same (magnetic bead)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| ((antibody) same (magnetic bead) same (Cell or spore) same (growth or metabolism or metabolite or germinat\$5) Same (antibody same immobiliz\$5) same (antigen or (biological cell) or metabolite) and (antibody same immobiliz\$5) same (magnetic bead)) and ((antibody same attach\$8) same (magnetic bead)) | PGPB, USPT | ADJ | YES | | 02-07-2010 |
| (Cell or spore) and (growth or metabolism or metabolite or germinat\$5) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (hologram or holograph) and (sensor or detect\$5) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (antibody) and (magnetic bead) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((antibody) and (magnetic bead)) asnd ((antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((antibody) and (magnetic bead)) and ((antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) and ((hologram or holograph) and (sensor or detect\$5)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((Cell or spore) and (growth or metabolism or metabolite or germinat\$5)) and ((antibody) and (magnetic bead)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| | | ADJ | YES | | 02-07-2010 |

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|---|------------------------|-----|-----|--|------------|
| ((Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead)) and ((antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) | USOC, EPAB, JPAB, DWPI | | | | |
| (antibody and immobiliz\$5) and(magnetic bead) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((antibody and immobiliz\$5) and(magnetic bead)) and ((Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((antibody and immobiliz\$5) and(magnetic bead) and (Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) and (holograph or hologram) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((antibody and immobiliz\$5) and(magnetic bead) and (Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) and (biosensor) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| ((antibody and immobiliz\$5) and(magnetic bead) and (Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) and (sensor) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| holograph and sensor | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (holograph and sensor) and ((antibody and immobiliz\$5) and(magnetic bead) and (Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (holograph and sensor) and ((antibody and immobiliz\$5) and(magnetic bead) and (Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |

| | | | | | |
|--|---------------------------------|-----|-----|--|------------|
| cell) or metabolite) and (sensor)) | | | | | |
| magnetic bead | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |
| (magnetic bead) and ((antibody and immobiliz\$5) and(magnetic bead) and (Cell or spore) and (growth or metabolism or metabolite or germinat\$5) and (antibody) and (magnetic bead) and (antibody and immobiliz\$5) and (antigen or (biological cell) or metabolite) and (sensor)) | USOC, EPAB, JPAB, DWPI | ADJ | YES | | 02-07-2010 |